

**IUCLID 5**  
INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE

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**Confidentiality**

CBI, IP, no PA

**Name** Quartz (non respirable)

**Legal entity owner** IMA-Europe / Brussels / Belgium

# Substance: Quartz (non respirable)

UUID IUC5-7b46edae-c905-44d6-a2b8-b446fc9b2bf5

Dossier UUID 0

Author Roger / IMA-Europe aisbl / Brussels / Belgium

Date 2010-09-06 21:23:56 CEST

Remarks

## 0 Related Information

### 0.1 Templates

### 0.2 Categories

### 0.3 Mixtures

## 1 General Information

### 1.1 Identification

#### **Substance identification**

Chemical name Quartz (non respirable)

Public name Quartz

Legal entity [IMA-Europe / Brussels / Belgium](#)

#### **Role in the supply chain**

Role: Manufacturer; Importer

#### **Reference substance**

[quartz \(non respirable\) / silicon dioxide \(quartz\) / Quartz / 14808-60-7](#)

EC number EC name

238-878-4 Quartz (SiO<sub>2</sub>)

CAS number CAS name

14808-60-7 Quartz

IUPAC name

silicon dioxide (quartz)

#### **Type of substance**

Composition mono constituent substance

Origin inorganic

### 1.2 Composition

#### **Substance composition**

Name	Quartz (non respirable)
Brief description	Quartz with a respirable quartz fraction below 1% w/w

#### **Degree of purity**

<= 100 % (w/w)

#### **Constituents**

Reference substance	<a href="#">quartz (non respirable) / silicon dioxide (quartz) / Quartz / 14808-60-7</a>
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EC number EC name

238-878-4 Quartz (SiO<sub>2</sub>)

CAS number CAS name

14808-60-7 Quartz

**IUPAC name**  
silicon dioxide (quartz)

**Typical concentration** ca. 99.5 % (w/w)

**Concentration range** >= 99— <= 100 % (w/w)

## Impurities

**Reference substance** [quartz \(respirable\) / Silicon dioxide \(quartz\) / quartz / 14808-60-7](#)

**EC number** **EC name**  
238-878-4 Quartz (SiO<sub>2</sub>)

**CAS number** **CAS name**  
14808-60-7 quartz

**IUPAC name**  
Silicon dioxide (quartz)

**Typical concentration** < 1 % (w/w)

**Concentration range** < 1 % (w/w)

**Name** Quartz (respirable quartz fraction 1-10%)

**Brief description** Quartz with a respirable quartz fraction equal or above 1% w/w but below 10% w/w

## Degree of purity

>= 95 % (w/w)

## Constituents

**Reference substance** [quartz \(non respirable\) / silicon dioxide \(quartz\) / Quartz / 14808-60-7](#)

**EC number** **EC name**  
238-878-4 Quartz (SiO<sub>2</sub>)

**CAS number** **CAS name**  
14808-60-7 Quartz

**IUPAC name**  
silicon dioxide (quartz)

**Typical concentration** ca. 95 % (w/w)

**Concentration range** >= 90— <= 100 % (w/w)

## Impurities

**Reference substance** [quartz \(respirable\) / Silicon dioxide \(quartz\) / quartz / 14808-60-7](#)

**EC number** **EC name**  
238-878-4 Quartz (SiO<sub>2</sub>)

**CAS number** **CAS name**  
14808-60-7 quartz

**IUPAC name**

Silicon dioxide (quartz)  
**Typical concentration** < 10 % (w/w)  
**Concentration range** >= 1— < 10 % (w/w)  
this impurity is considered relevant for the classification and labelling of the substance

**Name** Quartz (respirable quartz fraction ≥ 10%)  
**Brief description** Quartz with a respirable quartz fraction equal or above 10% w/w

### Degree of purity

>= 95 % (w/w)

### Constituents

**Reference substance** [quartz \(non respirable\) / silicon dioxide \(quartz\) / Quartz / 14808-60-7](#)

<b>EC number</b>	<b>EC name</b>
238-878-4	Quartz (SiO <sub>2</sub> )
<b>CAS number</b>	<b>CAS name</b>
14808-60-7	Quartz
<b>IUPAC name</b>	
silicon dioxide (quartz)	

**Typical concentration** < 90 % (w/w)  
**Concentration range** >= 10— < 90 % (w/w)  
**Remarks** although the concentration of the constituent could be below 80% for this particular form of quartz (non respirable), the remaining "ingredients" is still quartz but under the form of respirable particles.

### Impurities

**Reference substance** [quartz \(respirable\) / Silicon dioxide \(quartz\) / quartz / 14808-60-7](#)

<b>EC number</b>	<b>EC name</b>
238-878-4	Quartz (SiO <sub>2</sub> )
<b>CAS number</b>	<b>CAS name</b>
14808-60-7	quartz
<b>IUPAC name</b>	
Silicon dioxide (quartz)	

**Typical concentration** >= 10 % (w/w)  
**Concentration range** >= 10— <= 100 % (w/w)  
**Remarks** although the concentration of the impurity is above 10%, it is still the same substance (Quartz) as the main constituent. It is just present as a different form  
this impurity is considered relevant for the classification and labelling of the substance

## 1.3 Identifiers

## 1.4 Analytical information

## 1.5 Joint submission

## 1.7 Suppliers

## 2 Classification and Labelling

### 2.1 GHS

### Classification and Labelling according to GHS

#### General information

Name	Quartz (non respirable)
Not classified	
Implementation	EU
State / form of the substance	powder
Related composition	<a href="#">Quartz (non respirable) / L-e0d591f3-d602-4684-89da-c86df5f704bc</a>

#### Classification

##### Physical hazards

	Hazard statement	Reason for no classification
Explosives		conclusive but not sufficient for classification
Flammable gases		conclusive but not sufficient for classification
Flammable aerosols		conclusive but not sufficient for classification
Oxidising gases		conclusive but not sufficient for classification
Gases under pressure		conclusive but not sufficient for classification
Flammable liquids		conclusive but not sufficient for classification
Flammable solids		conclusive but not sufficient for classification
Self-reactive substances and mixtures		conclusive but not sufficient for classification
Pyrophoric liquids		conclusive but not sufficient for classification
Pyrophoric solids		conclusive but not sufficient for classification
Self-heating substances and mixtures		conclusive but not sufficient for classification
Substances and mixtures which in contact with water emit flammable gases		conclusive but not sufficient for classification
Oxidising liquids		conclusive but not sufficient for classification
Oxidising solids		conclusive but not sufficient for classification
Organic peroxides		conclusive but not sufficient for classification
Corrosive to metals		conclusive but not sufficient for classification

##### Health hazards

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Acute toxicity - oral</b>		conclusive but not sufficient for classification
<b>Acute toxicity - dermal</b>		conclusive but not sufficient for classification
<b>Acute toxicity - inhalation</b>		conclusive but not sufficient for classification
<b>Skin corrosion/irritation</b>		conclusive but not sufficient for classification
<b>Serious eye damage/ eye irritation</b>		conclusive but not sufficient for classification
<b>Respiratory sensitisation</b>		conclusive but not sufficient for classification
<b>Skin sensitisation</b>		conclusive but not sufficient for classification
<b>Aspiration hazard</b>		conclusive but not sufficient for classification
<b>Reproductive toxicity</b>		
<b>Reproductive toxicity</b>		conclusive but not sufficient for classification
<b>Specific effect</b>		
<b>Route of exposure</b>		
<b>Effects on or via lactation</b>		conclusive but not sufficient for classification

### **Germ cell mutagenicity**

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Germ cell mutagenicity</b>		conclusive but not sufficient for classification
<b>Route of exposure</b>		

### **Carcinogenicity**

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Carcinogenicity</b>		conclusive but not sufficient for classification
<b>Route of exposure</b>		

### **Specific target organ toxicity - single**

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Specific target organ toxicity - single</b>		conclusive but not sufficient for classification
<b>Affected organs</b>		
<b>Route of exposure</b>		

### **Specific target organ toxicity - repeated**

	<b>Hazard statement</b>	<b>Reason for no classification</b>

	Hazard statement	Reason for no classification
Specific target organ toxicity - repeated		conclusive but not sufficient for classification
Affected organs		
Route of exposure		

## Environmental hazards

	Hazard statement	Reason for no classification
Hazardous to the aquatic environment		conclusive but not sufficient for classification
Hazardous to the atmospheric environment		conclusive but not sufficient for classification

## Labelling

Signal word                      No signal word

## General information

Name                                  Quartz (respirable quartz fraction 1-10%)

Implementation                      EU

State / form of the substance      other: powder containing equal or above 1% w/w but below 10% w/w of respirable particles

Related composition                [Quartz \(respirable quartz fraction 1-10%\) / L-9313284e-2b2c-4cb3-837b-26b805af5210](#)

## Classification

### Physical hazards

	Hazard statement	Reason for no classification
Explosives		conclusive but not sufficient for classification
Flammable gases		conclusive but not sufficient for classification
Flammable aerosols		conclusive but not sufficient for classification
Oxidising gases		conclusive but not sufficient for classification
Gases under pressure		conclusive but not sufficient for classification
Flammable liquids		conclusive but not sufficient for classification
Flammable solids		conclusive but not sufficient for classification
Self-reactive substances and mixtures		conclusive but not sufficient for classification
Pyrophoric liquids		conclusive but not sufficient for classification
Pyrophoric solids		conclusive but not sufficient for classification
Self-heating substances and mixtures		conclusive but not sufficient for classification

<b>Substances and mixtures which in contact with water emit flammable gases</b>	conclusive but not sufficient for classification
<b>Oxidising liquids</b>	conclusive but not sufficient for classification
<b>Oxidising solids</b>	conclusive but not sufficient for classification
<b>Organic peroxides</b>	conclusive but not sufficient for classification
<b>Corrosive to metals</b>	conclusive but not sufficient for classification

## Health hazards

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Acute toxicity - oral</b>		conclusive but not sufficient for classification
<b>Acute toxicity - dermal</b>		conclusive but not sufficient for classification
<b>Acute toxicity - inhalation</b>		conclusive but not sufficient for classification
<b>Skin corrosion/irritation</b>		conclusive but not sufficient for classification
<b>Serious eye damage/ eye irritation</b>		conclusive but not sufficient for classification
<b>Respiratory sensitisation</b>		conclusive but not sufficient for classification
<b>Skin sensitisation</b>		conclusive but not sufficient for classification
<b>Aspiration hazard</b>		conclusive but not sufficient for classification
<b>Reproductive toxicity</b>		
<b>Reproductive toxicity</b>		conclusive but not sufficient for classification
<b>Specific effect</b>		
<b>Route of exposure</b>		
<b>Effects on or via lactation</b>		conclusive but not sufficient for classification

## Germ cell mutagenicity

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Germ cell mutagenicity</b>		conclusive but not sufficient for classification
<b>Route of exposure</b>		

## Carcinogenicity

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Carcinogenicity</b>		conclusive but not sufficient for classification
<b>Route of exposure</b>		

	Hazard statement	Reason for no classification
Specific target organ toxicity - single		conclusive but not sufficient for classification
Affected organs		
Route of exposure		

### Specific target organ toxicity - repeated

	Hazard statement	Reason for no classification
Specific target organ toxicity - repeated	STOT Rep. 2 H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.	
Affected organs	Lung	
Route of exposure	Inhalation	


### Environmental hazards

	Hazard statement	Reason for no classification
Hazardous to the aquatic environment		conclusive but not sufficient for classification
Hazardous to the atmospheric environment		conclusive but not sufficient for classification

### Labelling

Signal word                      Warning

### Hazard pictogram

Hazard Pictogram	Code
	GHS08: health hazard

### Hazard statements

Hazard statement	H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
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### Precautionary statements

Precautionary statement	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
Precautionary statement	P285: In case of inadequate ventilation wear respiratory protection.

Precautionary statement P501: Dispose of contents/container to ...

## General information

**Name** Quartz (respirable quartz fraction  $\geq 10\%$ )  
**Implementation** EU  
**State / form of the substance** other: powder containing 10% or more (w/w) of respirable particles  
**Related composition** [Quartz \(respirable quartz fraction  \$\geq 10\%\$ \) / L-8132ac5f-fe9a-4219-a56c-a7cecd7248f6](#)

## Classification

### Physical hazards

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Explosives</b>		conclusive but not sufficient for classification
<b>Flammable gases</b>		conclusive but not sufficient for classification
<b>Flammable aerosols</b>		conclusive but not sufficient for classification
<b>Oxidising gases</b>		conclusive but not sufficient for classification
<b>Gases under pressure</b>		conclusive but not sufficient for classification
<b>Flammable liquids</b>		conclusive but not sufficient for classification
<b>Flammable solids</b>		conclusive but not sufficient for classification
<b>Self-reactive substances and mixtures</b>		conclusive but not sufficient for classification
<b>Pyrophoric liquids</b>		conclusive but not sufficient for classification
<b>Pyrophoric solids</b>		conclusive but not sufficient for classification
<b>Self-heating substances and mixtures</b>		conclusive but not sufficient for classification
<b>Substances and mixtures which in contact with water emit flammable gases</b>		conclusive but not sufficient for classification
<b>Oxidising liquids</b>		conclusive but not sufficient for classification
<b>Oxidising solids</b>		conclusive but not sufficient for classification
<b>Organic peroxides</b>		conclusive but not sufficient for classification
<b>Corrosive to metals</b>		conclusive but not sufficient for classification

### Health hazards

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Acute toxicity - oral</b>		conclusive but not sufficient for classification
<b>Acute toxicity - dermal</b>		conclusive but not sufficient for

	classification
<b>Acute toxicity - inhalation</b>	conclusive but not sufficient for classification
<b>Skin corrosion/irritation</b>	conclusive but not sufficient for classification
<b>Serious eye damage/ eye irritation</b>	conclusive but not sufficient for classification
<b>Respiratory sensitisation</b>	conclusive but not sufficient for classification
<b>Skin sensitisation</b>	conclusive but not sufficient for classification
<b>Aspiration hazard</b>	conclusive but not sufficient for classification
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	conclusive but not sufficient for classification
<b>Specific effect</b>	
<b>Route of exposure</b>	
<b>Effects on or via lactation</b>	conclusive but not sufficient for classification

### Germ cell mutagenicity

	Hazard statement	Reason for no classification
<b>Germ cell mutagenicity</b>		conclusive but not sufficient for classification
<b>Route of exposure</b>		

### Carcinogenicity

	Hazard statement	Reason for no classification
<b>Carcinogenicity</b>		conclusive but not sufficient for classification
<b>Route of exposure</b>		

### Specific target organ toxicity - single

	Hazard statement	Reason for no classification
<b>Specific target organ toxicity - single</b>		conclusive but not sufficient for classification
<b>Affected organs</b>		
<b>Route of exposure</b>		

### Specific target organ toxicity - repeated

	Hazard statement	Reason for no classification
<b>Specific target organ toxicity -</b>	STOT Rep. Exp. 1	H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state

<b>repeated</b>	route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
<b>Affected organs</b>	lung
<b>Route of exposure</b>	Inhalation


### Environmental hazards

	<b>Hazard statement</b>	<b>Reason for no classification</b>
<b>Hazardous to the aquatic environment</b>		conclusive but not sufficient for classification
<b>Hazardous to the atmospheric environment</b>		conclusive but not sufficient for classification

### Labelling

**Signal word** Danger

### Hazard pictogram

<b>Hazard Pictogram</b>	<b>Code</b>
	GHS08: health hazard

### Hazard statements

<b>Hazard statement</b>	H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
<b>Additional text</b>	Causes damage to lungs through prolonged or repeated exposure via inhalation

### Precautionary statements

<b>Precautionary statement</b>	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
<b>Additional text</b>	Do not breathe dust
<b>Precautionary statement</b>	P285: In case of inadequate ventilation wear respiratory protection.
<b>Precautionary statement</b>	P501: Dispose of contents/container to ...
<b>Additional text</b>	Dispose of contents/container according to local legislation

## 3 Manufacture, use and exposure

### 3.3 Sites

## Reference substance: quartz (respirable)

**UUID** IUC5-cea0b1a9-b36b-45ae-980f-ca0e3df02be5

**Dossier UUID** 0

**Author** Roger / IMA-Europe aisbl / Brussels / Belgium

**Date** 2010-08-31 13:58:45 CEST

**Remarks**

### General information

**Reference substance name** quartz (respirable)

### EC inventory

**EC number** 238-878-4 **CAS number** 14808-60-7

**EC name** Quartz (SiO<sub>2</sub>)

**Molecular formula** O<sub>2</sub>Si

### Reference substance information

#### CAS information

**CAS number** 14808-60-7

**CAS name** quartz

#### IUPAC name

Silicon dioxide (quartz)

#### Description

The substance is in the form of respirable particles as defined in standard EN 481

#### Group / category information

DSL Category: Inorganics

#### Molecular and structural information

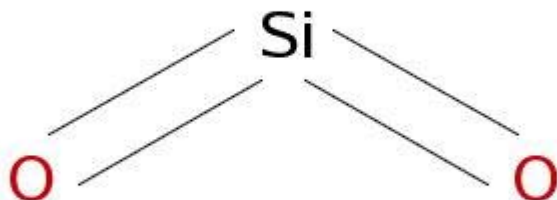
**Molecular formula** O<sub>2</sub>Si

**Molecular weight range** 60.0843

**SMILES notation** O=[Si]=O

**InChI** InChI=1/O<sub>2</sub>Si/c1-3-2

**Structural formula**



## Legal entity: IMA-Europe

**UUID** IUC5-3cc7af11-89ed-4c14-98d9-f02e422a526f

**Dossier UUID** 0

**Author** Roger / IMA-Europe / Brussels / Belgium

**Date** 2010-03-30 18:01:18 CEST

**Remarks**

### General information

**Legal entity name** IMA-Europe

**Legal entity type** company

### Identifiers

#### Legal entity identifiers

Flags	Identifier type	ID
	VAT	BE-0452946151

#### Other IT system identifiers

Flags	IT system	ID	Remarks
	LEO	7885	

### Contact information

#### Contact address

**Address** Rue des Deux Eglises 26

**Postal code** 1000

**Town** Brussels

**Country** Belgium

**Phone** 003222104410

**Fax** 003222104429

**E-mail** r.doome@ima-europe.eu

**Web site** www.ima-europe.eu

#### Contact persons

**Organisation** IMA-Europe

**Title** Dr

**First name** Roger

**Last name** Doome

**Phone** 003222104410

**E-mail** r.doome@ima-europe.eu

**Address** Rue des Deux Eglises 26

**Postal code** 1000

**Town** Brussels

**Country** Belgium

### Sites

Rue des Deux Eglises

## Reference substance: quartz (non respirable)

UUID IUC5-07cb8533-fd81-4a7f-a5fe-6b90c3c5efe9

Dossier UUID 0

Author Roger / IMA-Europe aisbl / Brussels / Belgium

Date 2010-08-31 13:58:26 CEST

Remarks

### General information

Reference substance name quartz (non respirable)

### EC inventory

EC number 238-878-4 CAS number 14808-60-7

EC name Quartz (SiO<sub>2</sub>)

Molecular formula O<sub>2</sub>Si

### Reference substance information

#### CAS information

CAS number 14808-60-7

CAS name Quartz

#### IUPAC name

silicon dioxide (quartz)

#### Description

The quartz (non respirable) is free from respirable particles as defined in the standard EN 481

#### Group / category information

DSL Category: Inorganics

#### Molecular and structural information

Molecular formula O<sub>2</sub>Si

Molecular weight range 60.0843

SMILES notation O=[Si]=O

InChI InChI=1/O<sub>2</sub>Si/c1-3-2

Structural formula

